



Assess. Equip. Insert. Inform.



Electronic Warfare
Tactical Vehicle



Tactical Aerostat



Persistent Duration UAS



Subterranean

REF Overview

U.S. Army Rapid Equipping Force (REF)

April 2019

UNCLASSIFIED// APPROVED FOR PUBLIC RELEASE

MISSION AND CORE FUNCTIONS



The Rapid Equipping Force (REF) **provides** innovative **materiel solutions** to meet the **urgent requirements** of U.S. Army forces employed globally, **informs** materiel development for the **future force**, and on order **expands** to meet operational demands.

ASSESS emerging combat requirements and identify commercial and government off-the-shelf solutions and technologies to equip the warfighter.

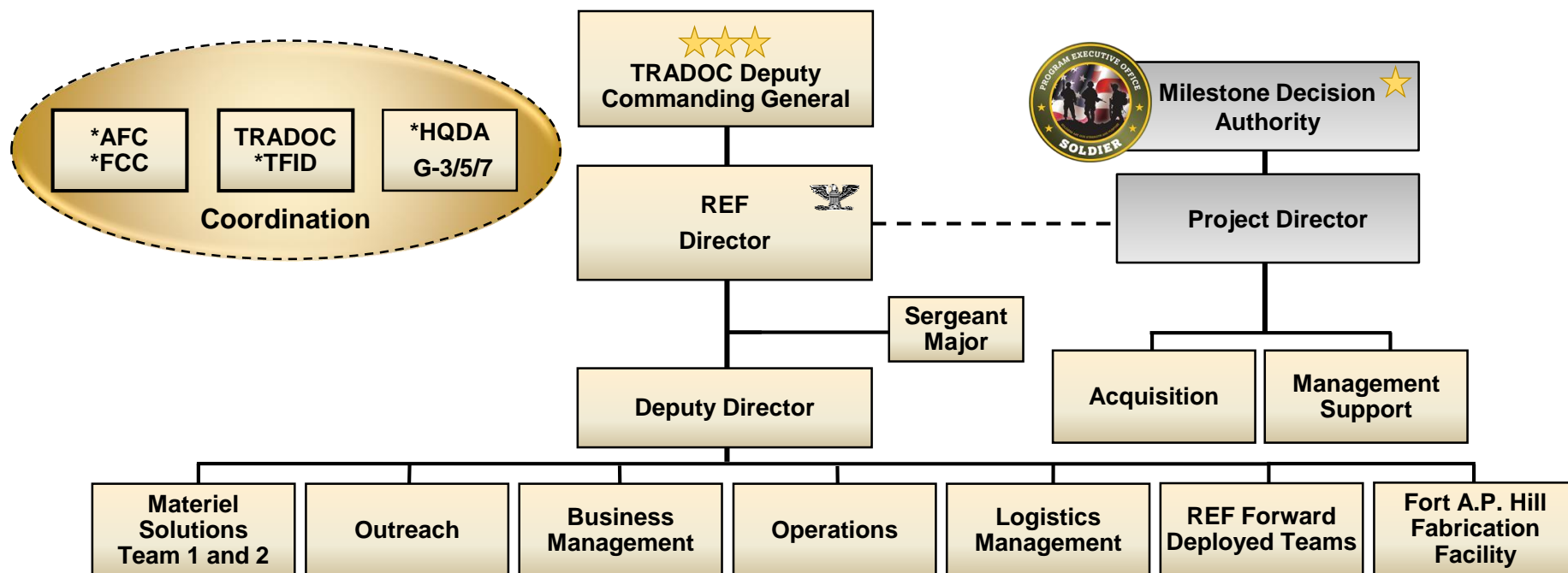
INSERT future force technologies, threshold capabilities and/or surrogates into operational forces to speed development and validate concepts in an operational environment.

EQUIP operational forces with urgent solutions in order to reduce operational capability shortfalls, increase Soldier safety and reduce risk.

INFORM TRADOC, ASA(ALT), AFC, HQDA maneuver elements and the greater Army of REF assessments and information received.

Army REF delivers! We don't want to break this. – Honorable Ryan McCarthy (USA)

ARMY REF TASK ORGANIZATION



*Acronyms

















- Army Futures Command (AFC)
- Futures and Concepts Center (FCC)
- TRADOC Force Integration Directorate (TFID)
- Headquarters, Department of the Army (HQDA)

———— Direct Support / Facilitation

- - - - - Technology Information Sharing / Coordination / Synchronization

KEY PROJECTS SUPPORTING ARMY READINESS



Persistent ISR	Expeditionary Lab (Ex Labs)	Electronic Warfare Tactical Vehicle (EWTV)	SFAB Support	Counter-Unmanned Aircraft System (C-UAS)	Subterranean
REF provides rapidly employable, persistent, and elevated ISR platforms	Ex Labs are forward deployed elements of the REF providing engineering and prototyping capabilities to the Warfighter	REF provided Electronic Sensing/Attack platform to III Corps 1st QTR FY 19	REF provided 1st, 2nd, and 3rd SFAB equipment to increase their capabilities to accomplish deployed mission sets	REF continues to support JUONS 0558; 50 Drone Busters	FY18 additions to the REF provided SubT Operations Kit: 110 FirstBook, Quickie Saw, 510 Packbot
					
					
					

REF remains a small investment with a big return for the Army.

REF ENHANCED CAPABILITIES



Ex Lab (Bagram, Afghanistan)

REF Fabrication Facility (Fort A.P. Hill, VA)

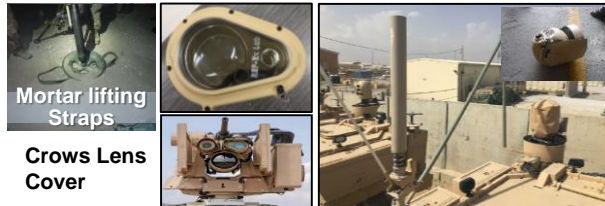
Machining + Welding + Sheet Metal + Fabrication + 3D Printing + Powder Coat Painting



Identify Problem

Design/Refine Prototype

Fabricate



Vehicle Optic Sensor System Protection

Additional Ex Lab capabilities:

- Globally deployable containerized system
- Readily transportable via air, land, sea or rail
- Mobile power generation with secure communication



Improves soldier readiness and soldier protection

- Keeps soldiers and their equipment mission ready by reducing system damage and downtime
- Rapidly prototype and engineer solutions for select replacement parts and force protection measures at the point of need
- REF subject matter experts accompany units to observe potential requirements firsthand



Assess. Equip. Insert. Inform.



LEARN MORE: WWW.REF.ARMY.MIL



UNCLASSIFIED// APPROVED FOR PUBLIC RELEASE